

01-12-04

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PATENT

Attorney Docket No. 18852-705

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application)	<u>PATENT APPLICATION</u>
)	
Inventor(s): C. Phillip Brown)	
)	
Application No.: 10/661,453)	Art Unit: Unknown
)	
Filed: September 12, 2003)	Examiner: Unknown
)	
Title NOISE REDUCTION SYSTEM)	
)	

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97

Sir:

Listed below or on an attached Form PTO-1449 is information known to applicant(s). A copy of each listed publication and U.S. and foreign patent, except for pending U.S. applications, is being submitted herewith, along with a concise explanation of information in a foreign language, if any, pursuant to 37 C.F.R. §1.97-1.98.

Applicant(s) respectfully request that the listed information be considered by the Examiner and be made of record in the above-identified application. If form PTO-1449 is enclosed, the Examiner is requested to initial and return it in accordance with MPEP §609.

Applicant(s) reserve(s) the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement is not intended to represent that a search has been made or that the information cited in the statement is, or is considered to be, material to patentability as defined in §1.56.

This statement qualifies under 37 C.F.R. §1.97, subsection (b) because (check all that apply):

(1) It is being filed within 3 months of the application filing date and is other than a continued prosecution application under § 1.53(d)
-- OR --

(2) It is being filed within 3 months of entry of a national stage
-- OR --

(3) It is being filed before the mail date of the first Office Action on the merits
-- OR --

(4) It is being filed before the mailing of a first Office Action after the filing of a request for continued examination under § 1.114.

37 C.F.R. §1.97(c). If this statement is being filed after the latest of: (1) three months beyond the filing date of a national application; (2) three months beyond the date of entry of the national stage as set forth in §1.491 in an international application; or (3) the mailing date of a first Office action on the merits, but before the mailing date of the earlier of a final office action under §1.113 or a notice of allowance under §1.311, then:

a certification as specified in §1.97(e) is provided below; **or**

a fee of \$180.00 as set forth in §1.17(p) is authorized below, enclosed, or included with the payment of other papers filed together with this statement.

37 C.F.R. §1.97(d). If this statement is being filed after the mailing date of the earlier of a final office action under §1.113 or a notice of allowance under §1.311, but before payment of the issue fee, then:

A. a certification as specified in §1.97(e) is completed below; and

B. a petition under 37 C.F.R. §1.97(d) requesting consideration of this statement is submitted herewith; **and**

C. a fee of \$130.00 as set forth in §1.17(i)(1) is authorized below, enclosed, or included with the payment of other papers filed together with this statement.

Copies of each of the references listed on the attached Form PTO-1449 are enclosed herewith.

Copies of references listed on the attached Form PTO-1449 are enclosed herewith EXCEPT THAT:

In view of the voluminous nature of references, and the likelihood that these references are available to the Examiner in the file history of the parent application (Serial No. _____), copies are not enclosed herewith.

If any of the foregoing publications are not available to the Examiner, Applicant will endeavor to supply copies at the Examiner's request.

Copies of only foreign patent documents and non-patent literature are enclosed in accordance with 37 CFR 1.98 (a)(2). (The U.S. patents and each U.S. patent application publication listed on the attached Form PTO-1449 are not enclosed because this U.S. patent application was filed after June 30, 2003 or this international application has entered the national stage under 35 USC §371 after June 30, 2003 (see USPTO waiver of requirement under 37 CFR 1.98 (a)(2)(i)).

There are no listed references which are not in the English language.

The relevance of those listed references which are not in the English language is as follows:

Attached are copies of search report(s) from corresponding patent application(s), which are listed on the attached Submission Under MPEP 609 D.

Attached are the following non-published pending patent applications which may be deemed relevant, which are listed on the attached Submission Under MPEP 609 D.

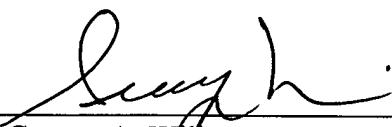
Fee Authorization. The Commissioner is hereby authorized to charge the above-referenced fees of \$0.00 and charge any additional fees or credit any overpayment associated with this communication to Deposit Account No. 23-2415 (Docket No. 18852-705).

Respectfully submitted,

WILSON SONSINI GOODRICH & ROSATI

Dated: 1/9/04

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PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. Department of Commerce

Under the paperwork Reduction Act of 1995, no persons required to respond to a collection of information unless it contains a valid OMB control number.

Complete if Known				
Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application No.	10/661,453	
		Filing Date	September 12, 2003	
		First Named Inventor	C. Phillip Brown	
		Art Unit	Unknown	
		Examiner Name	Unknown	
Sheet	1	Of	2	Attorney Docket No.
18852-705				

U.S. PATENT DOCUMENTS					
Examiner's Initials	Cite No. ¹	Document No.	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US-5,027,410	06/25/1991	Williamson et al.	
		US-5,388,182	02/07/1995	Benedetto et al.	
		US-6,122,610	09/19/2000	Isabelle	
		US-6,453,289-B1	09/17/2002	Ertem et al.	
		US-2002/0177995-A1	11/28/2002	Walker	
		US-			

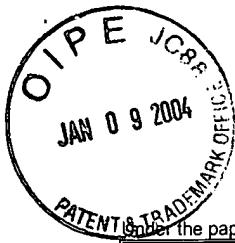
FOREIGN PATENT DOCUMENTS					
Examiner's Initials	Cite No.1	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ – Number ⁴ – Kind Code ⁵ (if known)			
EXAMINER SIGNATURE			DATE CONSIDERED		

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional) 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

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Attorney Docket No. 18852-705



PTO/SB/08A (10-01)

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Sheet	2	Of	2	Attorney Docket No.	18852-705

OTHER PRIOR ART – NON PATENT RELATED DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher city and/or country where published			T ²
		Thiemann, Joachim, "Acoustic Noise Suppression for Speech Signals using Auditory Masking Effects", Thesis submitted to Department of Electrical & Computer Engineering, McGill University, Montreal, Canada, July 2001, 74 pages.			
		Parikh, Gaurang K., "The Effect of Noise on the Spectrum of Speech", Masters Degree Thesis submitted to The University of Texas at Dallas, August 2002, 79 pages.			
		Martin, Rainer, "Spectral Subtraction Based on Minimum Statistics", <i>Signal Processing VII: Theories and Applications</i> , M. Holt et al. (Eds), European Assoc. for Signal Processing, (1994), pp. 1182-1185.			
		Cohen, I. et al., "Noise Estimation by Minima Controlled Recursive Averaging for Robust Speech Enhancement", <i>IEEE Signal Processing Letters</i> , Vol. 9, No. 1, January 2002, pp. 12-15.			
		Kamath, Sunil D. et al., "A Multi-Band Spectral Subtraction Method for Enhancing Speech Corrupted by Colored Noise", Department of Electrical Engineering, University of Texas at Dallas, 4 pages.			
EXAMINER SIGNATURE				DATE CONSIDERED	

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1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.